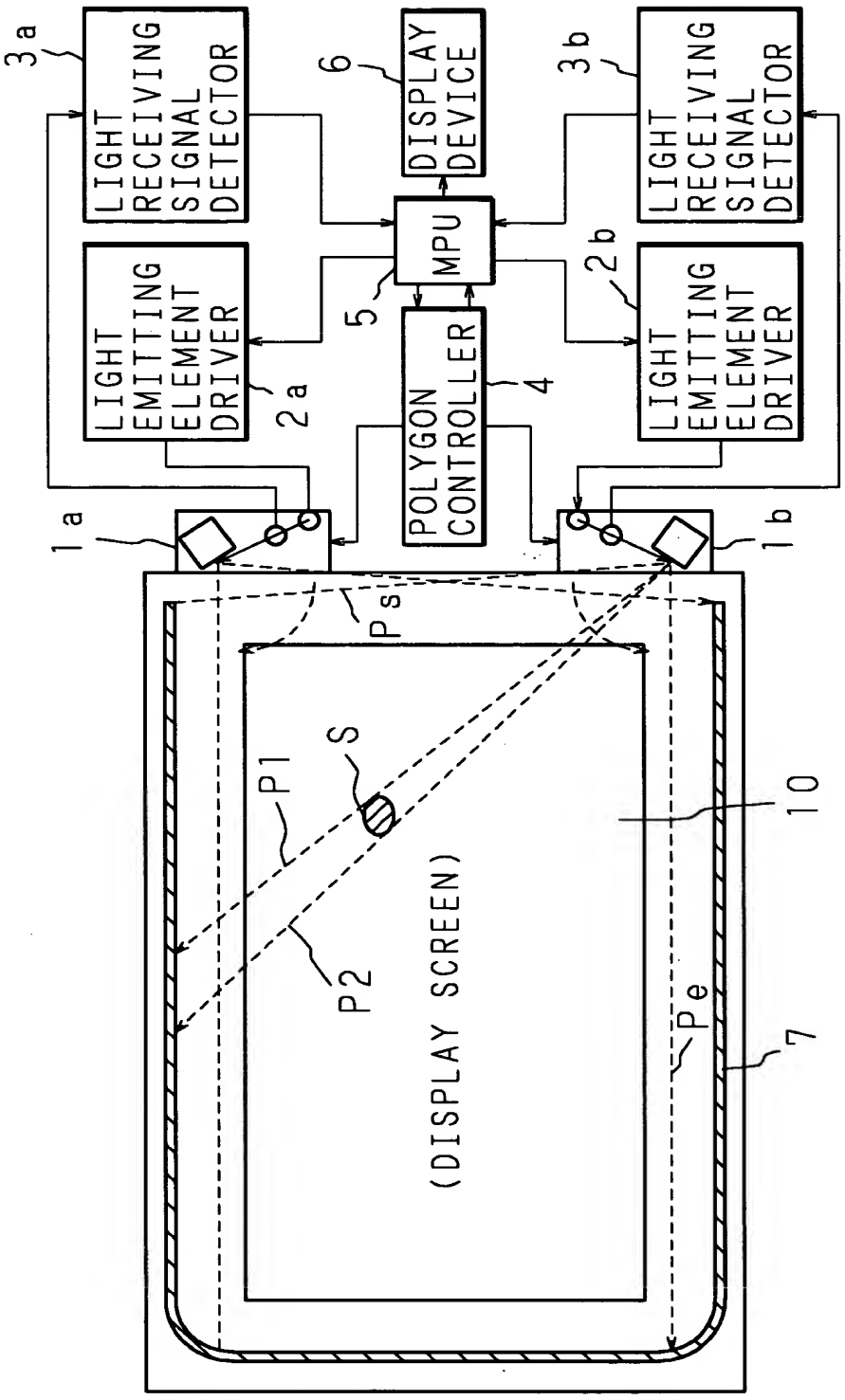

3a
LIGHT RECEIVING SIGNAL DETECTOR
6
DISPLAY DEVICE
3b
LIGHT RECEIVING SIGNAL DETECTOR
MPU
5
2b
LIGHT EMITTING ELEMENT DRIVER
LIGHT EMITTING ELEMENT DRIVER
2a
POLYGON CONTROLLER
4
1a
1b
Ps
P1
S
10
(DISPLAY SCREEN)
P2
Pe
7

FIG. 1

EP 2 090 480 A1

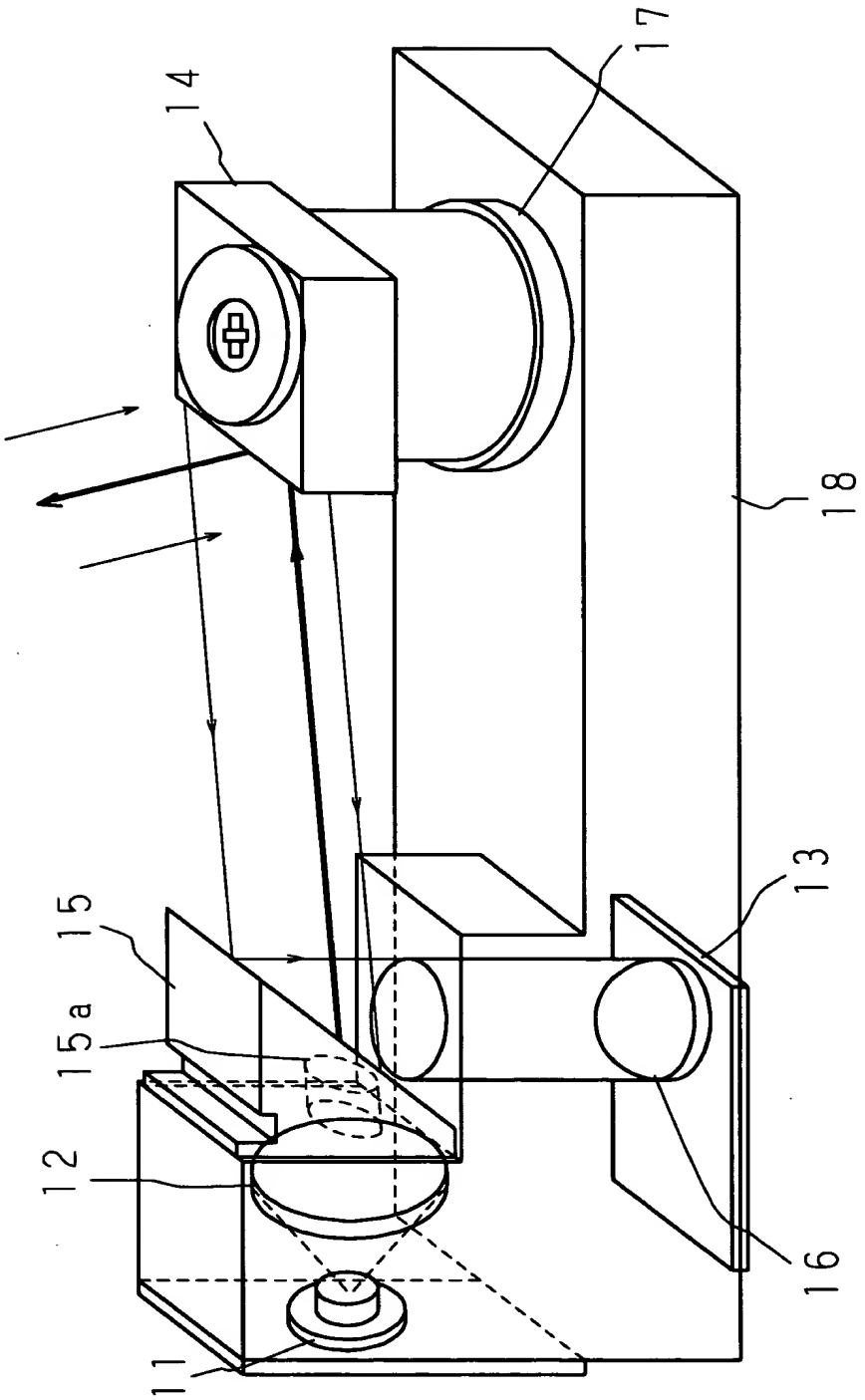
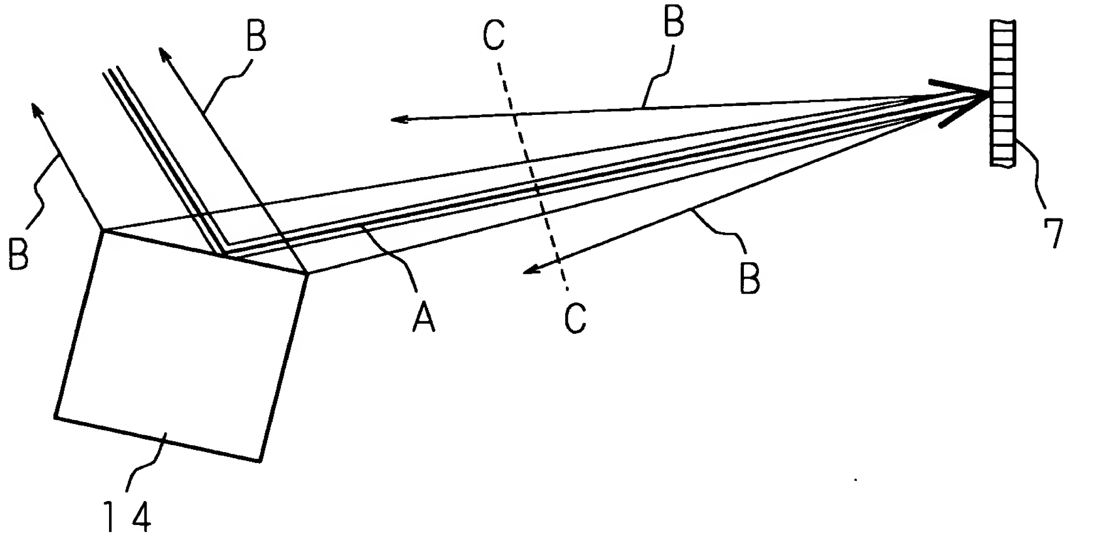


FIG. 2

FIG. 3



A:SCANNING LIGHT
B:REFLECTED LIGHT

FIG. 4

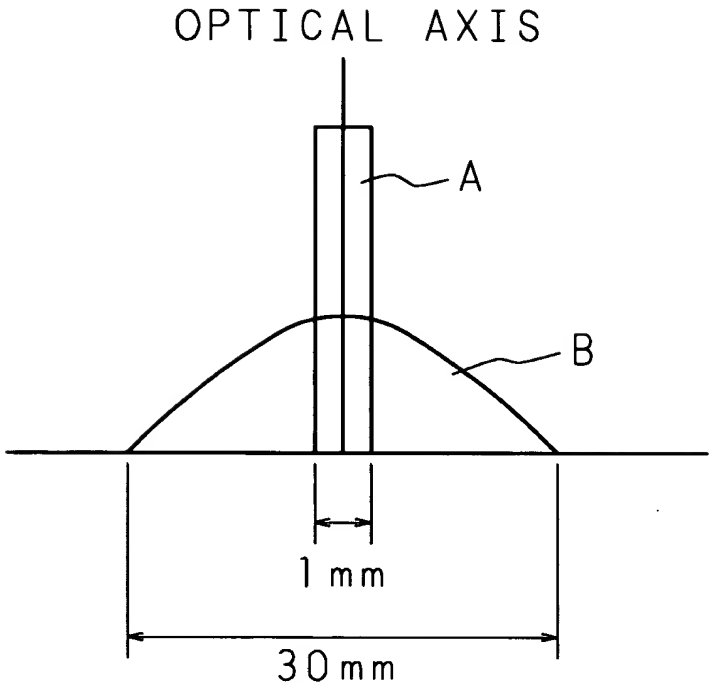


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FIG. 5

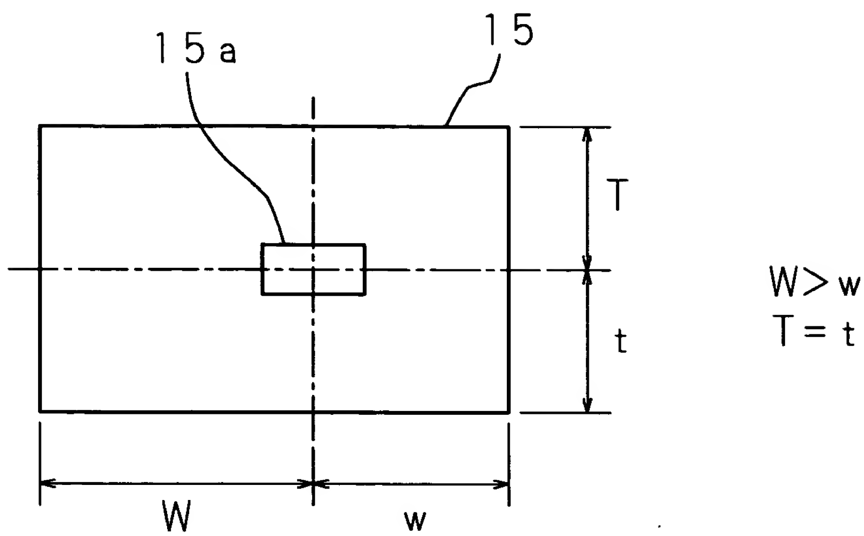


FIG. 6

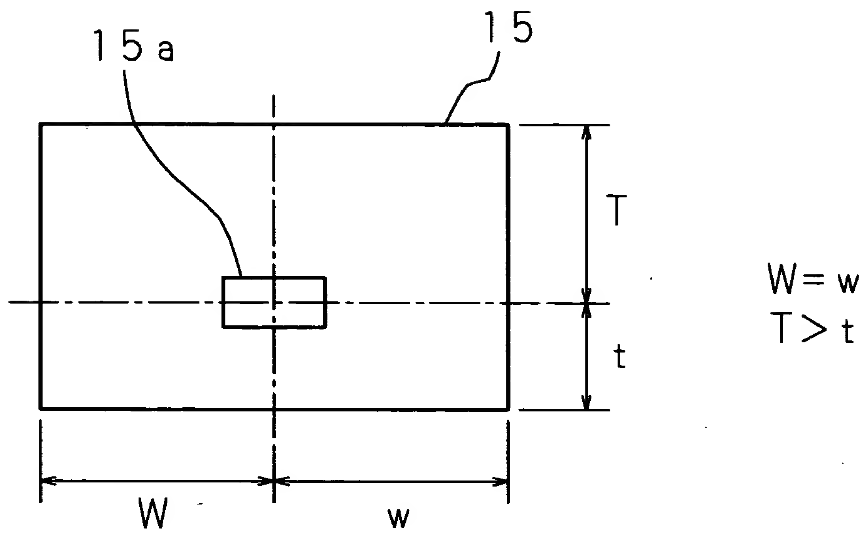
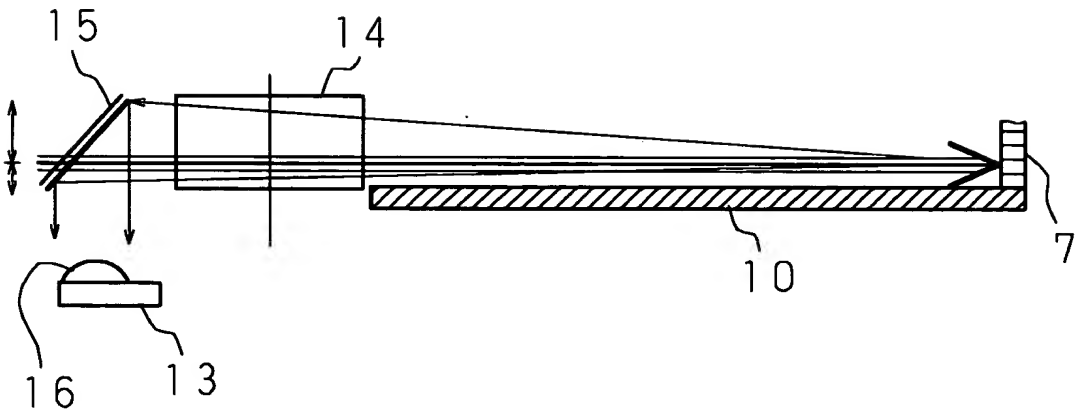


FIG. 7



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EP 0 080 404 B1

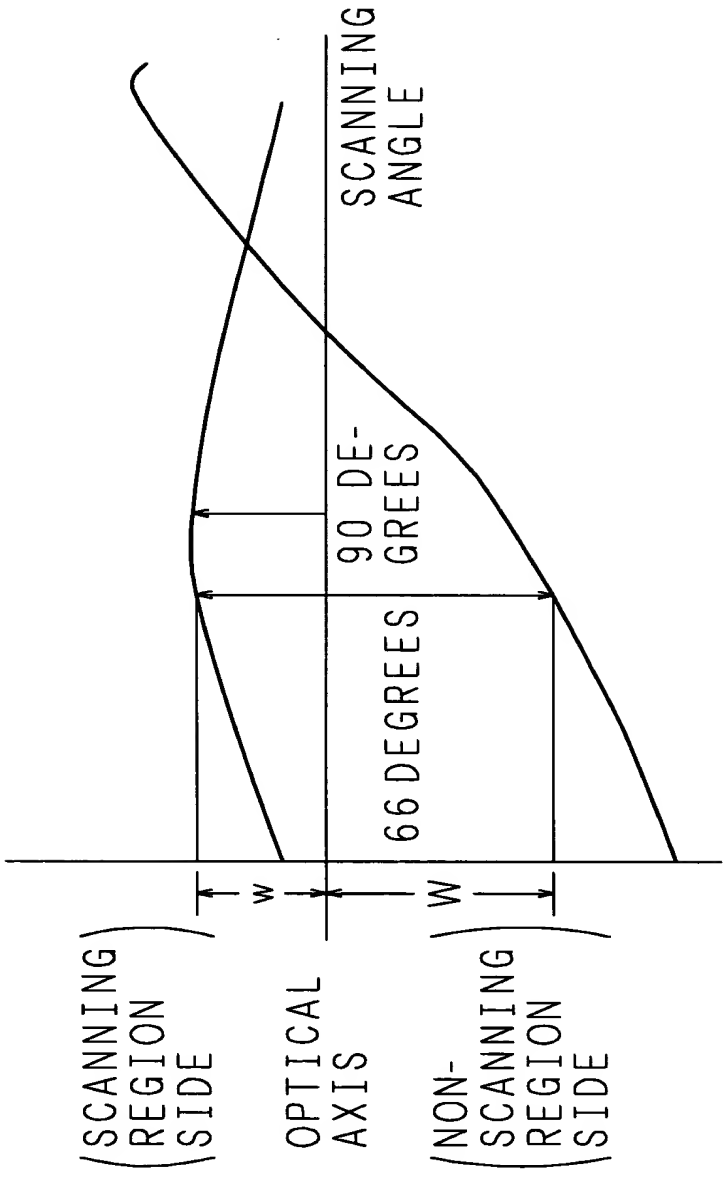
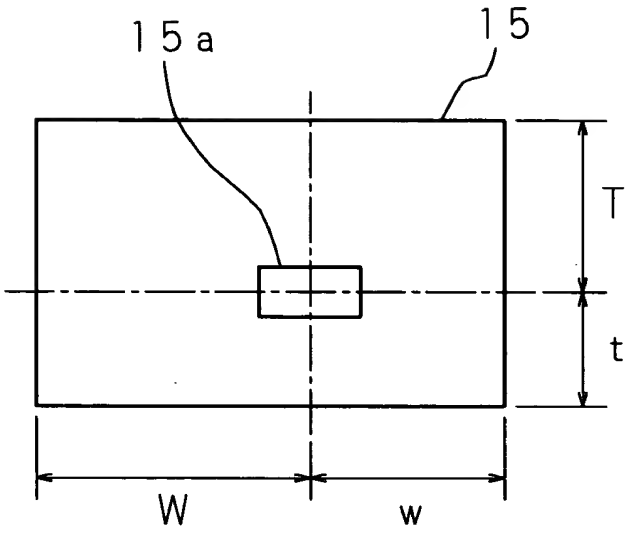


FIG. 8

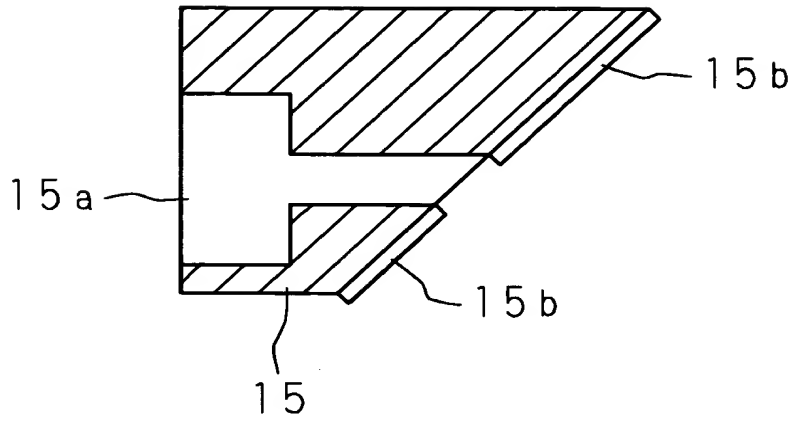
FIG. 9



W>w
T>t

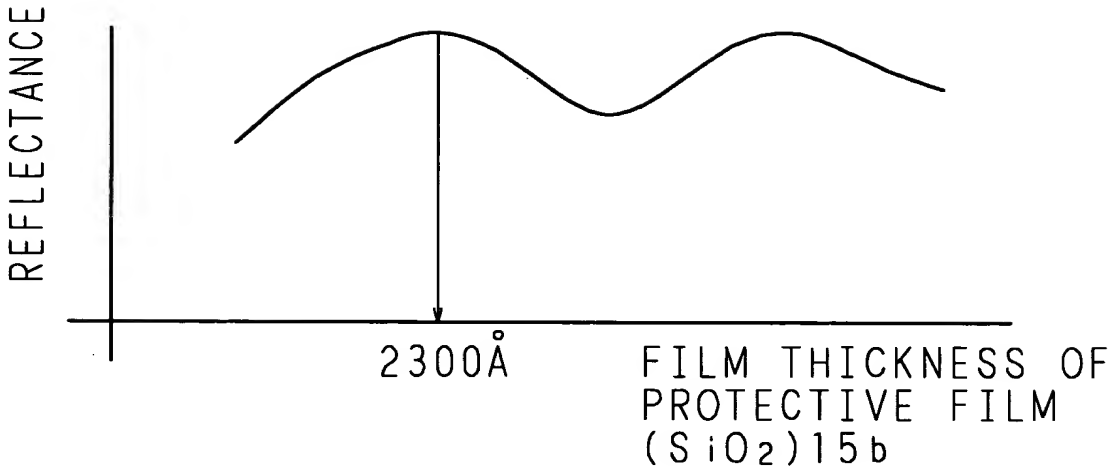
09/508,054 09/07/04

FIG. 10



09/508494 071001

FIG. 11



T0/0910"+80/5/950

FIG. 12

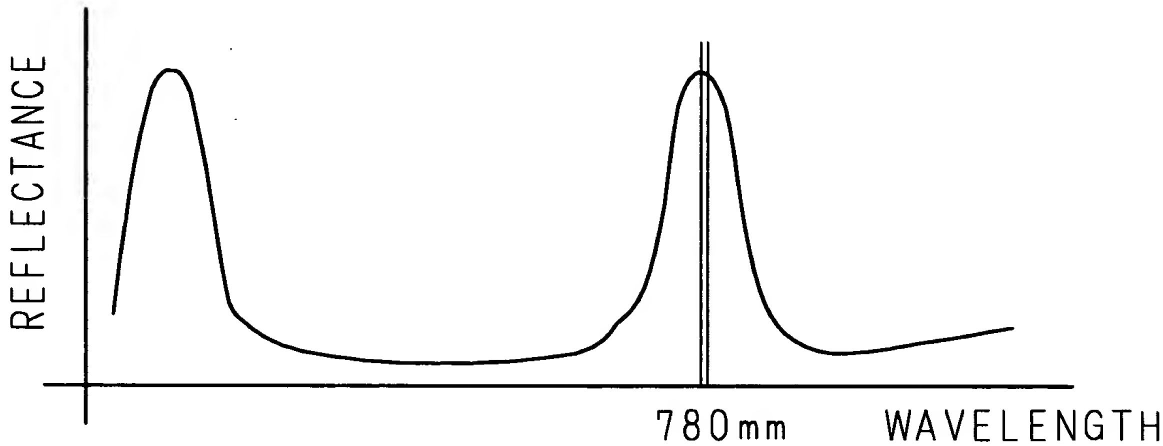
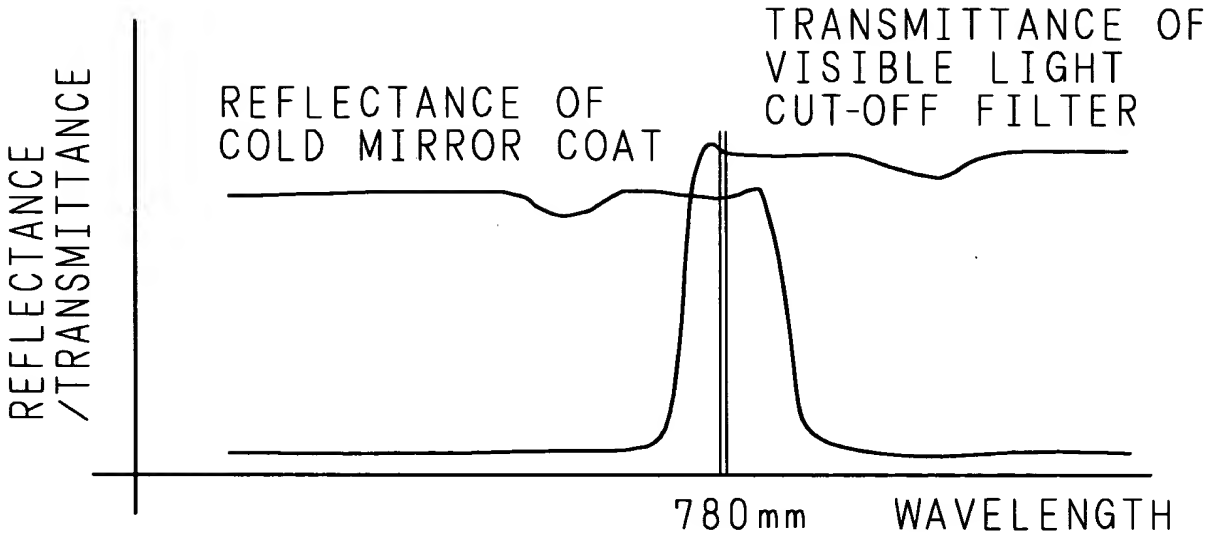


FIG. 13



EP 0 709 749 A2

FIG. 14

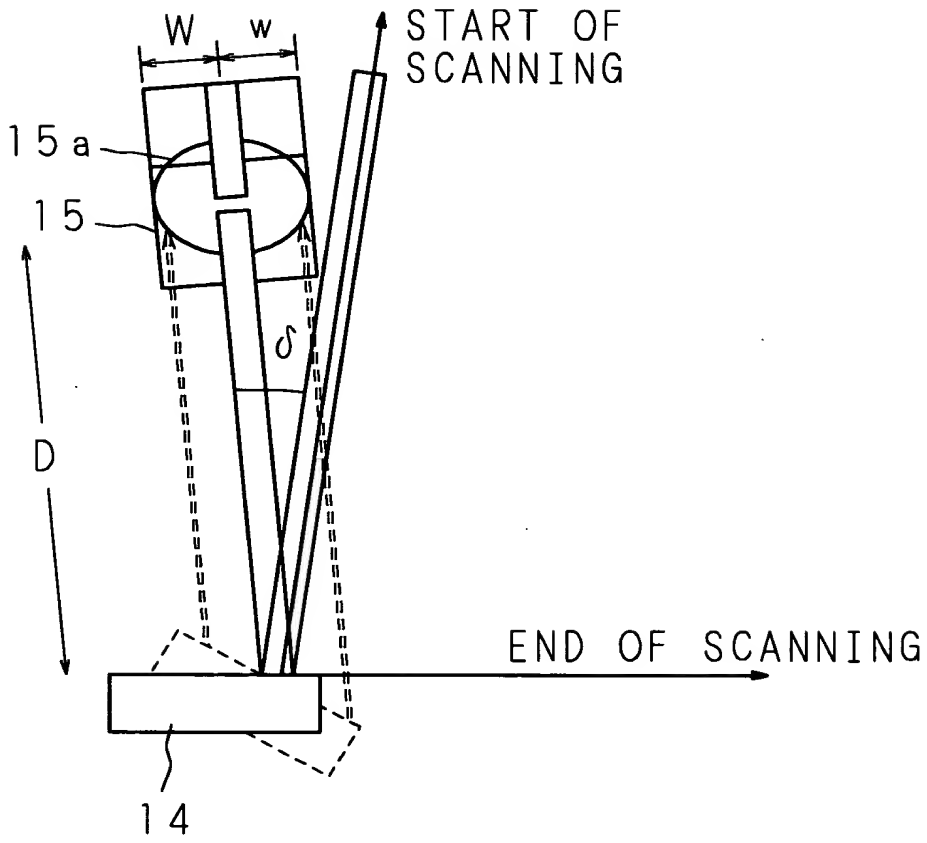
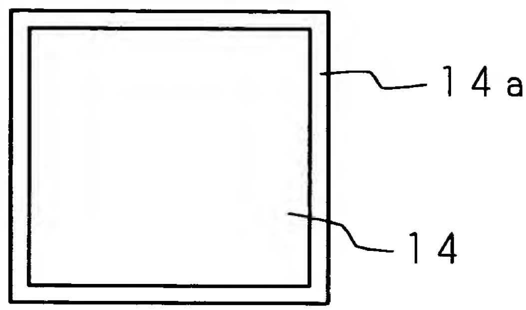


FIG. 15



09875084.060701

FIG. 16

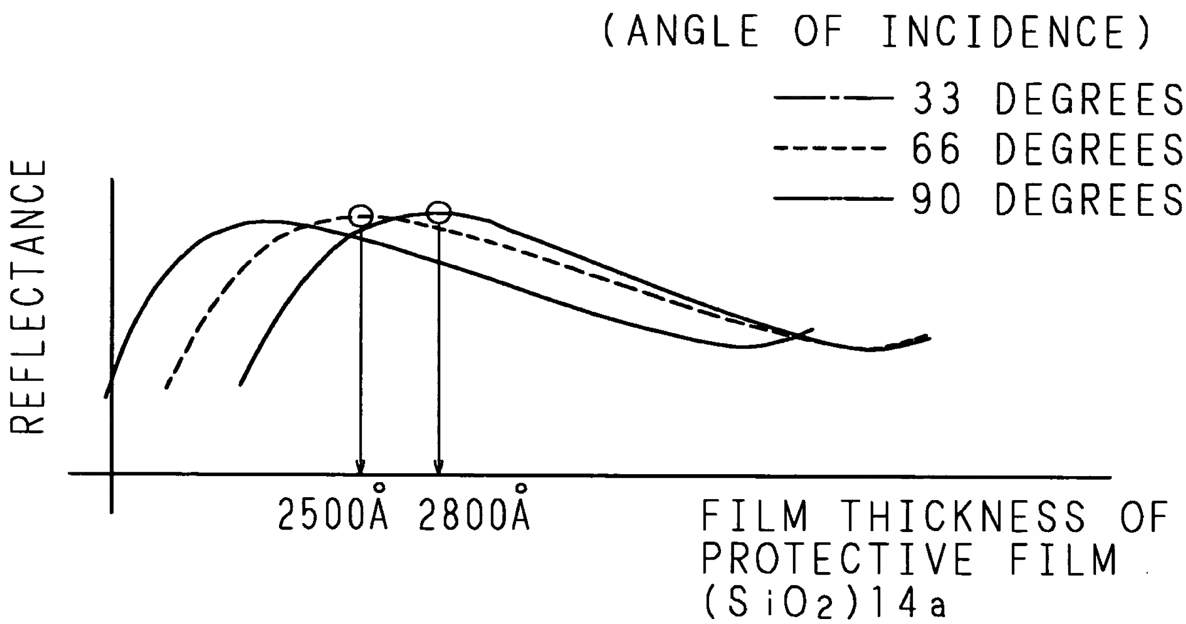
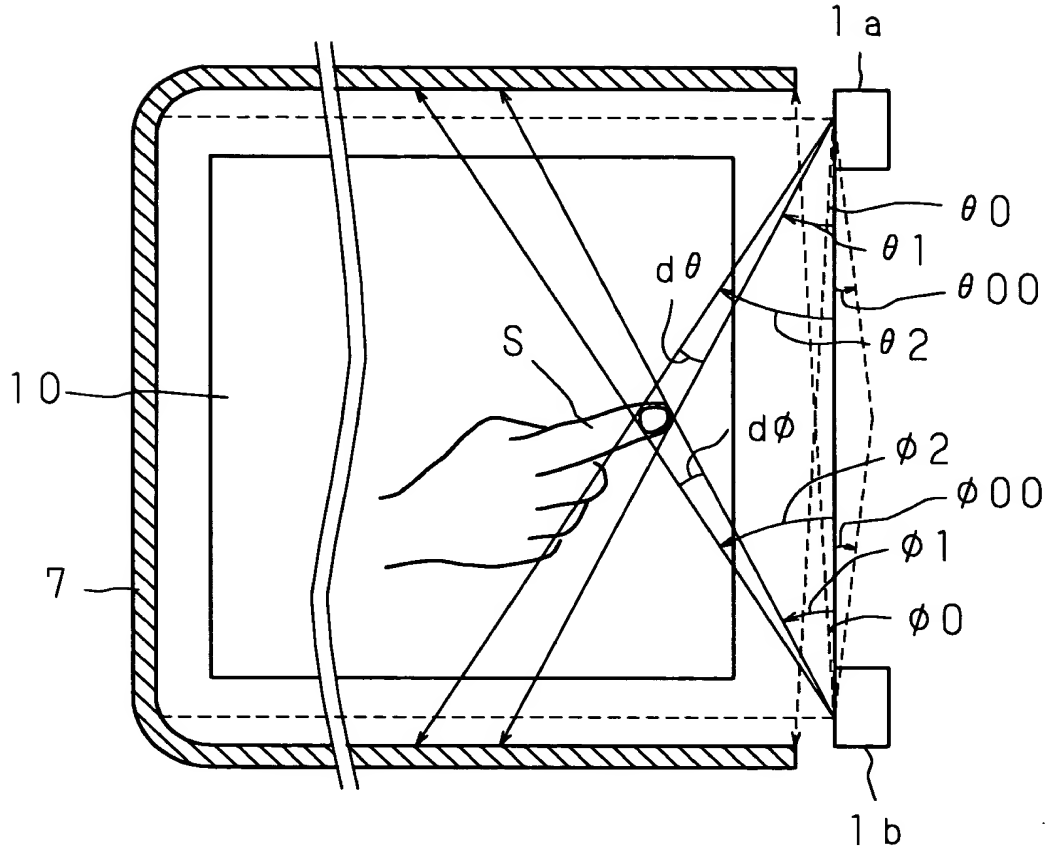

(ANGLE OF INCIDENCE)
33 DEGREES
66 DEGREES
90 DEGREES
REFLECTANCE
2500Å
2800Å
FILM THICKNESS OF
PROTECTIVE FILM
(SiO2)14a

FIG. 17



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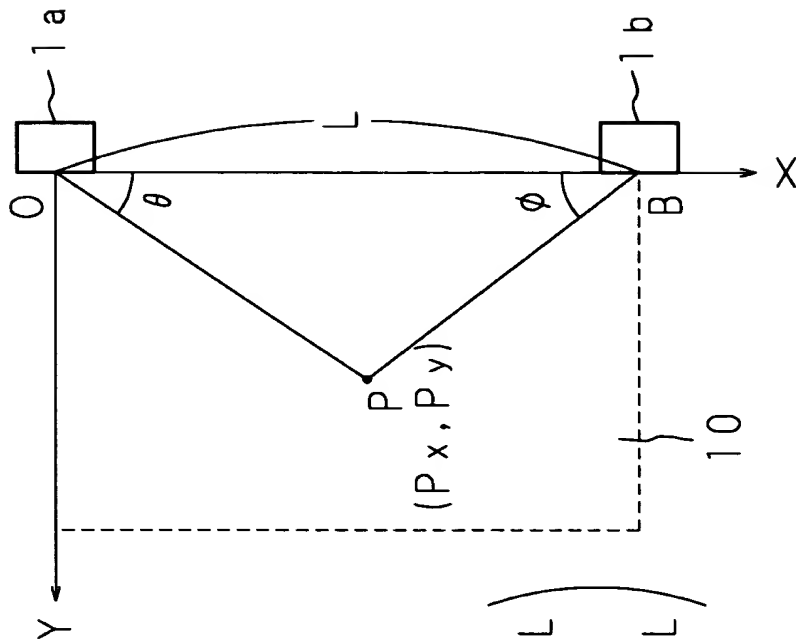
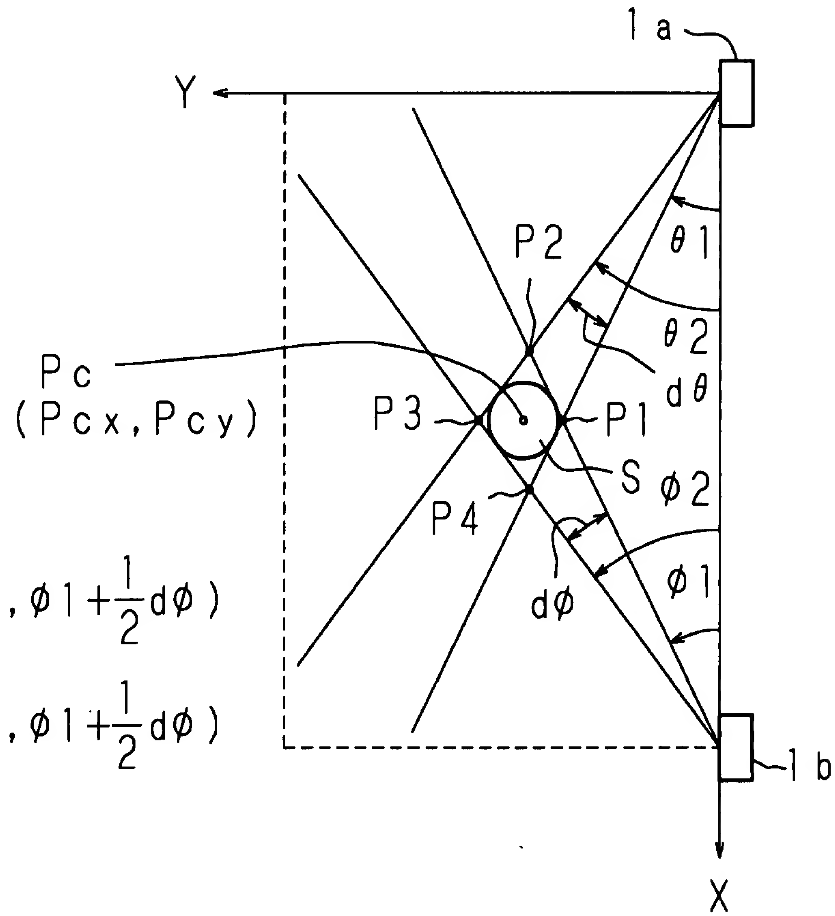


$$\begin{pmatrix} Px(\theta,\phi) \\ Py(\theta,\phi) \end{pmatrix} = \begin{pmatrix} \frac{\tan\phi}{\tan\theta+\tan\phi} L \\ \frac{\tan\theta\tan\phi}{\tan\theta+\tan\phi} L \end{pmatrix}$$

FIG. 18

FIG. 19



$$\left(\begin{aligned} Pcx(\theta,\phi) &= Pcx\left(\theta 1+\frac{1}{2}d\theta,\ \phi 1+\frac{1}{2}d\phi\right) \\ Pcy(\theta,\phi) &= Pcy\left(\theta 1+\frac{1}{2}d\theta,\ \phi 1+\frac{1}{2}d\phi\right) \end{aligned}\right.$$

EP 0 299 490 A2

FIG. 20

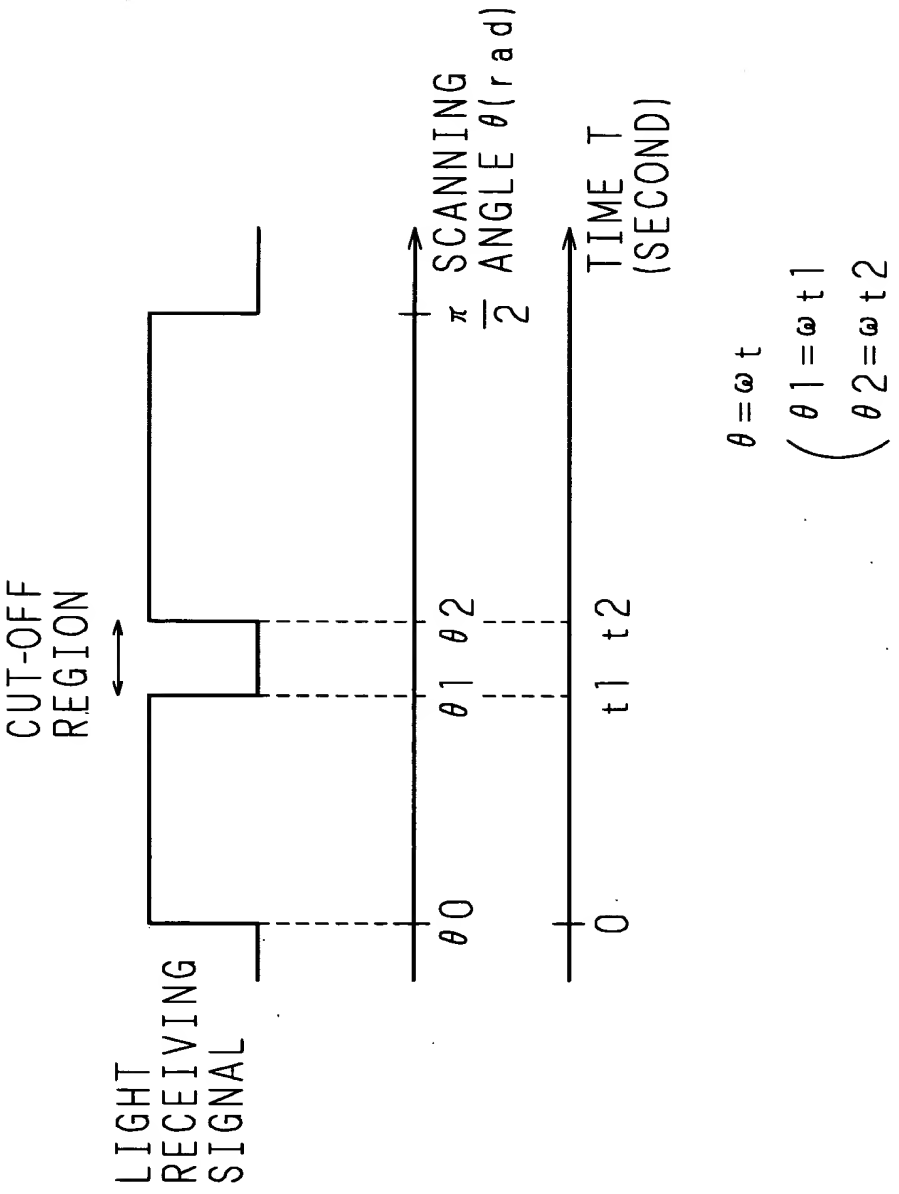
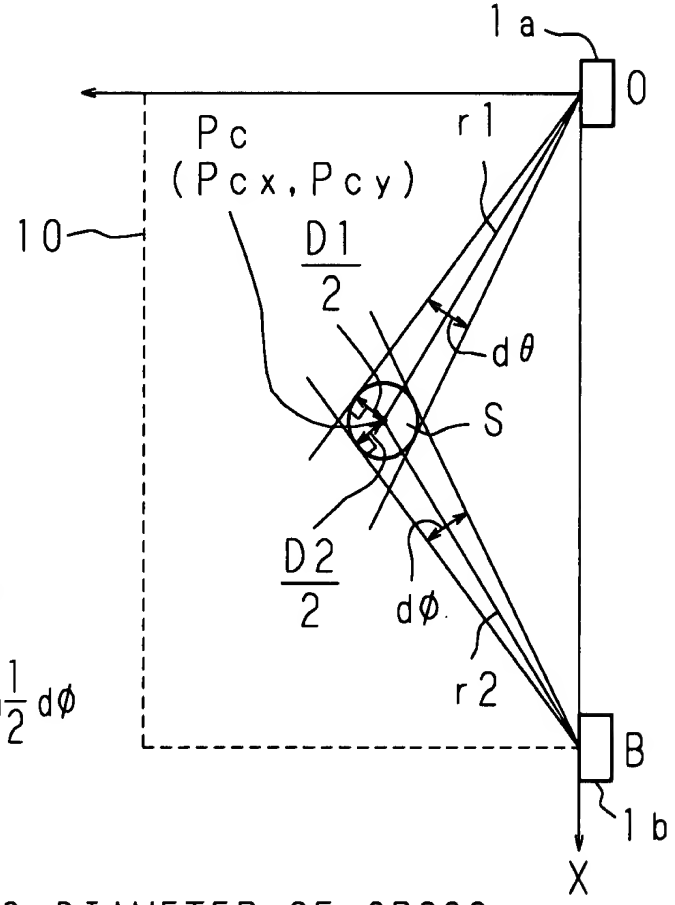


FIG. 21

$$\begin{cases} OPc = r1 = \sqrt{Pcx^2 + Pcy^2} \\ BPc = r2 = \sqrt{(L - Pcx)^2 + Pcy^2} \end{cases}$$

$$\begin{cases} D1 = 2 \cdot r1 \cdot \sin\frac{1}{2}d\theta = 2\sqrt{Pcx^2 + Pcy^2} \cdot \sin\frac{1}{2}d\theta \\ D2 = 2 \cdot r2 \cdot \sin\frac{1}{2}d\phi = 2\sqrt{(L - Pcx)^2 + Pcy^2} \cdot \sin\frac{1}{2}d\phi \end{cases}$$



D1, D2: DIAMETER OF CROSS SECTION OF INDICATOR